

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/762,580	02/09/2001	Gerard Hotier	PET1913	5248	
23599 7	7590 03/28/2003				
MILLEN, WHITE, ZELANO & BRANIGAN, P.C. 2200 CLARENDON BLVD. SUITE 1400			EXAMINER		
			CINTINS, IVARS C		
ARLINGTON,	, VA 22201		ART UNIT	PAPER NUMBER	
			1724	9	
			DATE MAILED: 03/28/2003	/	

Please find below and/or attached an Office communication concerning this application or proceeding.



				A	
Office Action Summary		Application No. 09/762,580	Applicant(s)	Hotier et al.	
		Examiner Ivars Cint	ns	Art Unit 1724	
	The MAILING DATE of this communication appears	on the cover sheet w	ith the corre	spondence address	
	for Reply				
THE N - Extens mailing - If the p - If NO p - Failure - Any re	ORTENED STATUTORY PERIOD FOR REPLY IS SE MAILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.136 (a), date of this communication. period for reply specified above is less than thirty (30) days, a reply with period for reply is specified above, the maximum statutory period will ap to reply within the set or extended period for reply will, by statute, cau ply received by the Office later than three months after the mailing date patent term adjustment. See 37 CFR 1.704(b).	in no event, however, may nin the statutory minimum of ply and will expire SIX (6) M use the application to become	a reply be timely thirty (30) days ONTHS from the ABANDONED (3	filed after SIX (6) MONTHS from th will be considered timely. mailing dete of this communication. 5 U.S.C. § 133).	
Status	,				
1) 💢	Responsive to communication(s) filed on Jan 6, 20	003			
2a) 💢	This action is <b>FINAL</b> . 2b) ☐ This ac	tion is non-final.			
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa				
Disposit	tion of Claims	•			
4) 💢	Claim(s) <u>1-23</u>		is	s/are pending in the applic	ation.
4	a) Of the above, claim(s)				
5) 🗆	Claim(s)			is/are allowed.	
6) 💢	Claim(s) <u>1-23</u>			is/are rejected.	
_	Claim(s)				
8) 🗆	Claims	are s	ubject to res	striction and/or election re	quiremer
	tion Papers				
9) 🗌	The specification is objected to by the Examiner.				
10)	The drawing(s) filed on is/a	re all accepted o	b) objec	ted to by the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be held in	abeyance. Se	e 37 CFR 1.85(a).	
11)	The proposed drawing correction filed on	is: a)	approved	d $oldsymbol{b}$ disapproved by the	Examin
	If approved, corrected drawings are required in reply	to this Office action.			
12)	The oath or declaration is objected to by the Exam	niner.			
	under 35 U.S.C. §§ 119 and 120				
	Acknowledgement is made of a claim for foreign p	priority under 35 U.S	.C. § 119(a	)-(d) or (f).	
a) 🗆	All b)□ Some* c)□ None of:				
•	1. $\square$ Certified copies of the priority documents ha	ve been received.			
2	2. $\square$ Certified copies of the priority documents have	ve been received in a	Application N	No	_ •
;	3. Copies of the certified copies of the priority of application from the International Bure	locuments have bee eau (PCT Rule 17.2)	n received in a)).	this National Stage	

Attachment(s)

1) X Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

\*See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Art Unit: 1724

Upon reconsideration, particularly in view of Applicant's remarks presented in the response filed January 6, 2003, the restriction requirement advanced in the previous Office action is hereby withdrawn.

The abstract filed September 16, 2002 has <u>not</u> been entered because Applicant failed to provide a "marked-up" copy of this abstract showing changes made.

The disclosure is objected to because of the following informalities:

- (1) the patent number given on page 13, line 13, of the specification appears to be incorrect; and
- (2) the abstract contains superfluous text (i.e. title, inventors, etc.).

Appropriate correction is required.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-23 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The claims still contain numerous vague and indefinite expressions. For example, the term "or a

Art Unit: 1724

body" (claim 1, lines 1-2) is vague, and indefinite as to the material intended. The recitation that the enclosure or column comprises "one or more adsorbent beds" (claim 1, line 3) is deemed to be misdescriptive since it appears that more than one adsorbent bed must be present in the recited system, since claim 1 also recites (see lines 3-4) that "two adsorbent beds" are separated by a plate. The term "the fluids" (claim 1, line 5 lacks antecedent basis in the claim, and is therefore indefinite. The structural interrelationships between the "plurality of lines" (claim 1, line 7), the "bypass circuit" (claim 1, line 9), the "distribution plate" (claim 1, line 9) and the "bypass line" (claim 1, line 9) with the column containing the adsorbent beds has not been clearly recited. The term "said communication means" (claim 2, line 1) lacks antecedent basis in the claims, and is therefore indefinite. The reference character corresponding to the recited valve (claim 2, line 2) has not been enclosed by parenthesis. The term "in that the end of the bypass line that is not connected to the zone of the adsorbent bed is connected to a delivery and/or extraction line" (claim 2, lines 3-4) is indefinite since parent claim 1 recites that this line is connected to the chamber Ci. The term "said communication means" (claim 3, line 1) lacks antecedent basis in the claims, and is therefore indefinite. The term "several means intended for

Art Unit: 1724

circulation of ... " (claim 4, lines 4-6) is vague, and indefinite as to the structural limitation intended. Since the fluids intended to be treated in the recited device are not structural elements of this device, the recitation of means "for communication" of these fluids (claim 4, lines 8 and 11) is vague, and indefinite as to the structural limitation intended. The term "flow section of ports intended" (claim 4, lines 11-12) is vague, and indefinite as to the limitation intended. "said means allowing communication" (claim 6, line 2) lacks antecedent basis in the claims, and is therefore indefinite. term "consistS" (claim 6, line 2) appears to be a typographical error. The terms "<<Pe>>" and "<<e>>" (claim 7, line 2) are vague, and indefinite as to the limitations intended. The terms "the resting face" (claim 8, line 2) and "the liner" (claim 8, line 3) lack antecedent basis in the claims, and are therefore indefinite. The term "the end of bypass line opens into said distribution means" (claim 10, lines 4-5) is indefinite because it is not clear which end is intended, and the term "said distribution means" lacks antecedent basis in the claims. term "the fluid distribution circuit" (claim 11, lines 1-2) lacks antecedent basis in the claims, and is therefore indefinite. term "the fluid distribution spider" (claim 12, line 4) lacks antecedent basis in the claims, and is therefore indefinite.

Art Unit: 1724

term "the end of the bypass line connected to the adsorbent bed" (claim 13, lines 2-3) lacks antecedent basis in the claims, and is therefore indefinite. The term "diverted fluid distribution means" (claim 14, lines 3-4) is vague, and indefinite as to the limitation intended. The term "said means" (claim 14, line 4; claim 15, lines 1 and 3) is indefinite as to which means is intended, since many "means" have been previously recited. The term "according to a sequentially in order to achieve separation" (claim 18, line 5) is vague, and indefinite as to the limitation intended. The term "the enclosure" (claim 18, line 7) lacks antecedent basis in the claim, and is therefore indefinite. Claim 18 is incomplete because it fails to recite the location of the "other end" of the bypass line. Claim 21 is indefinite because it merely recites an intended use (i.e. "for separation of ..."), and fails to positively recite any process steps corresponding to this use. Process claim 22 is indefinite because it depends from an apparatus claim (i.e. claim 4).

Claims 1-23 would be allowed if rewritten or amended to overcome the above rejection under 35 U.S.C. § 112 because the references of record do not teach or fairly suggest a simulated moving bed device having a bypass line of the type recited.

French Patent No. 2,772,634 discloses a similar simulated moving bed device.

Art Unit: 1724

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (703) 308-3840. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Simmons, can be reached at (703) 308-1972.

The fax phone numbers for this art unit are: (703) 872-9311 for "Official" faxes after Final Rejection; (703) 872-9310 for

Art Unit: 1724

all other "Official" faxes; and (703) 872-9492 for "Draft" and other "Unofficial" faxes.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Ivars C. Cintins
Primary Examiner
Art Unit 1724

I. Cintins
March 23, 2003